KRECEK, J.; DLOUHA, H.; KRECKOVA, J.

Changes of renal reactivity to vasopress in in young rateduring weaning. Cesk. fysiol. 7 no.5:496-497 Sept 58.

1. Fysiologicky ustav CSAV, Praha.

(VASOPRESSIN, effects.

on kidneys, changes of reactivity during weaning (Cz))

(IACTATION, physiology,

renal reactivity changes to vasopressin during weaning in rats

(Cz))

DIOUHA, H.; KRECKK, J.; KRECKOVA, J.

Effect of STH on excretion of water and sodium in young rats. Cesk. fysiol.
8 no.3:178-179 Apr 59.

1. Fysiologicky ustav CSAV, Praha. Predneseno na III. fysiologickych dnech
v Brne dne 15. 1. 1959.

(SOMOTOTROPIN, eff.

on urinary water-sodium concentration in young rats (Cz))

(URINE,

eff. of somatotropin on concentration in young rats (Cz))

(SODIUM, in urine,

eff. of somatotropin in young rats (Cz))

KRECEK, J.; DLOUHA, H.; KRECKOVA, J.

Effect of vasopressin on renal function in isotonic diuresis in weaned rats. Cesk. fysiol. 8 no.3:216-217 Apr 59.

Fysiologicky ustav CSAV, Praha. Predneseno na III. fysiologickych dnech v Erne dne 15. 1. 1959.

 (VASOPRESSIN, eff.
 on kidney funct. in isotonic diuresis in weaned rats (Cz))

KRECEK, J.; DLOUHA, H.; KRECKOVA, J.

On the effect of antidiuretic hormone on the excretion of urea in young.rats during weaning. Cesk. fysiol. 9 no.1:32-33 Ja 60.

1. Fysiologicky ustav CSAV, Praha.

(VASOPRHSSIN pharmacol.)

(URFA urine)

(BREAST FREDING)

DLOUHA, H.; KRECEK, J.; KRECKOVA, J.

Role of sex hormones in the regulation of active intake of water and electrolytes. Cesk. Lysiol. 8 no.5:399 S 159

1. Fysiologicky ustav CSAV, Praha.
(WATER ELECTROLYTE BAIANCE)
(CASTRATION eff.)

NOVAKOVA, V.; DLOUHA, H.

Affect of spreading afferent signalization to the central nervous system to the intake and excretion of water in rats. Cesk. fysiol. 8 no.5:423-425 S '59

1. Fysiologicky ustav CSAV, Praha.
(BRAIN physicl.)
(URINATION physiol.)
(WATER)

DLOUHA, H.: KRECEK, J.

Effect of the irritation of the splanchnic nerve on the visceral monosynaptic arch. Cook.fysiol. 9 no.3:225-226 My 160.

1. Fysiologicky ustav CSAV. Praha.
(REFLEX)
(SYMPATENTIC NERVOJS SYSTEM physiol)

KRECEK, J.; DLOUHA, H.; KRECKOVA, J.

On the problem of the excretion of urea by the tubular part of the nephron. Cesk.fysiol. 9 no.3:244-245 My 160.

1. Fysiologicky ustav CSAV Praha.
(UREA urine)
(KIDNEYS physiol)

KRECKOVA, J.; DLOUHA, J.; KRECKE, J.

Effect of vasopressin on urea excretion in diuresis produced by isotonic NaCl solution. Cesk.fysiol. 9 no.3:245-246 My '60.

1. Fysiologicky ustav CSAV, Praha.

(VASOPRESSIN pharmacol)

(UREA urine)

(ISOTONIC SOLUTIONS pharmacol)

(DIURESIS)

DLOUHA, H.; KRECEK, J.; KRECKOVA, J.

Water diuresis and the effect of vasopressin in infant rats. Physiol. Bohemoslov. 12 no.5:443-452 163.

1. Institute of Physiology, Gzechoslovak Academy of Sciences, Prague.

(VASOPRESSIN) (DIURESIS) (WATER) (NATRIURESIS) (SODIUM CHLORIDE)

DLOUHA, H.; KRAUS, M.; KRECEK, J.; PLISKA, V.

Sensitivity of rate to vasopressin in the weaning period. Physiol. Bohem oslov. 14 no.3:217-224 165.

1. Institute of Physiology and Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

DLOUHA, H.

A comparison of the antidiuratic and pressor effects of vasopressin in infant and adult rats. Physiol. Bohemoslov. 14 no.3: 225-227 *65

1. Institute of Physiology, Gzechoslovak Academy of Sciences, Prague.

DLOUHA, J.

"Superconductivity and its use, cryotron."

POKROKY MATEMATIKY, FYSIKY A ASTRONOMIE, Praha, Czechoslovakia, Vol. 4, no. 2, 1959

Monthly List of EAST EUROPEAN ACCESSIONS INDEX (EEAI), LC, Vol. 8, No. 7, July, 1959

Unclassified

DIOUHA, Jarmila

Mossbauer effect. Cs cas fys 14 no.3:222-246 '64.

1. Chair of Theoretical Physics, Charles University, Prague.

DLOUHA, J.

The influence of pressure on the Mossbauer effect. Chekhosl. fiz zhur 14 no.8:570-579 164

The Mossbauer effect in the points of phase transitions. Ibid. 8 580-585

1. Faculty of Mathematics and Physics, Charles University, Prague 2, Ke Karlovu 3.

POKORNY, Jan; KOPECKY, Antonin; DLOUHA, Jirina

Cane wax as cosmetic raw material. Prum potravin 14 no.11: 579-580,612 N.63.

1. Vysoka skola chemickotechnologicka, katedra chemie a zkouseni potravin, Praha (for Pokorny). 2. Sdruzeni tukoveho prumyslu, Vyzkumny ustav pro tuky a oleje, Fraha (for Kopecky and Dlouha).

L 20438-66 EWT (m) DIAAP

ACC NR: AP6000661

SOURCE CODE: CZ/0055/65/015/009/0686/0695

AUTEUR: Dicuha, J.; Rohlens, I.

les University. Prague: now Institute

ORG: Faculty of Mathematics and Physics, Charles University, Prague; now Institute of Physics, Czechoslovak Academy of Sciences, Prague

TITLE: Resonance absorption of gamma quanta in one- and two-dimensional crystals

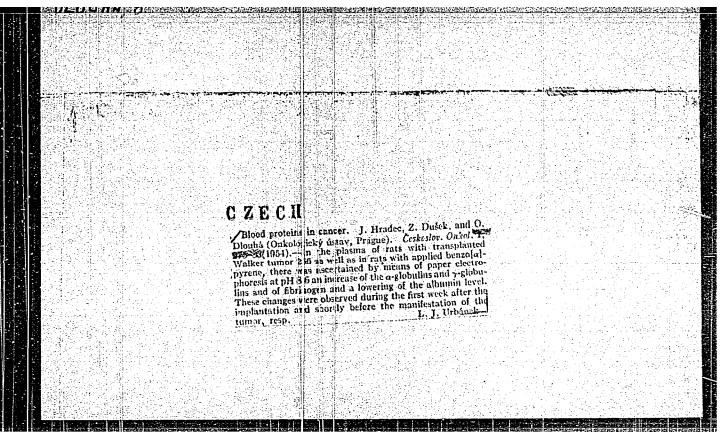
SOURCE: Chekhoslovatskiy fizicheskiy zhurnal v. 15, no. 9, 1965, 686-695

TOPIC TAGS: resonance absorption, single crystal, crystal structure, gamma quantum, resonance line, gamma ray, Mossbauer effect

ABSTRACT: The resonance absorption of gamma-quanta in one- and two-dimensional crystals was investigated. The form of the resonance lines was determined and the question of the possibility of the existence of the Mossbauer effect in such a model was analyzed. It was found that for one dimensional crystals the Mossbauer effect is zero with the exception of the case of perpendicular incidence of gamma rays on the linear chain. Also for two dimensional crystals this effect would be possible only at absolute zero. The authors thank Dr. C. Muzikar for suggesting the work and for many discussions. Orig. art. has: 5 figures and 15 formulas. [Based on authors' abstract.]

SUB CODE: 20/ SUBM DATE: 03Feb65/ ORIG REF: 001/ OTH REF: 004/ SOV REF: 002/

Card 1/1 01 6



KEIL, B.; MORAVEK, J.; DLOUHA, V.; FILIP, J.

On proteins. Part 75: Desulfuration and hyrogenation of amino acids by using tritium. Coll Cz Chem 27 no.7:1687-1691 Jl 162.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences and Institute for Research, Production and Utilization of Radioisotopes, Prague.

DLOUHY, A.

TECHNOLOGY

Periodicals: JADERNA ENERGIE Vol. 4, No. 12, Dec. 1958

DLOUHY, A: MALY, J. Kinetics of adsorption of radiosotope mixtures on surfaces. p.387

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 5 May 1959, Unclass.

DLUGIY, Boguslav [Dlouhy, Bohuslav], inzh. (Praga)

Laying a water conduit made of asbestos-cement pipes.

Vod. i san. tekh. no.8:35-36 Ag '62. (MIRA 15:9)

(Pipe, Asbestos-cement)

(Kadan, Czechoslovakia—Water pipes)

1, 10604-65 EAT(1)/EEC(t) IJP(c)/RAFM(a)/AS(mp)-2/AFWL/SSD/FSD(gs)/ESD(t)/AEDC(a) ACCESSION NR: AP4044591 2/0055/64/014/008/0570/0579 Dlouha, J. AUTHOR: TITLE: The influence of pressure on the Mossbauer effect SOURCE: Chekhoslovatskiy fisicheskiy zhurnal, v. 14, no. 8, 1964, 570-579 TOPIC TAGS: Mossbauer effect, pressure effect, compressed crystal spectroscopy, Mossbauer line intensity ABSTRACT: The effect of pressure on the intensity of the Mossbauer line (the probability of the Mossbauer effect) and on shifts in the position of the center of the line was investigated theoretically. The study was based on the idea that changes in specific volume of a crystal are reflected in its frequency spectrum. The difficulties involved in calculating such frequency spectra were overcome approximately by using the Gruneisen approximation. The temperature dependence of the intensity of the Mossbauer line in a one-atom crystal with a simple-cubic lattice is used to show that the effect of changus in specific volume on the line intensity can be converted,

L 106似-65 ACCESSION NR: AP4044591 except for a multiplication factor, to mere changes in temperature (assuming that it is sufficient to consider interactions between nearest neighbors). It was then shown that the total change in the energy shift of the Mossbauer line with a change in specific volume depends little in the temperature. The relations derived for one-atom crystals (the previous case) were shown to be valid, to a rough approximation, or crystals with regular crystal lattices and an arbitrary number of atoms in the unit cell. The line intensity can be increased by using high pressures (enough to cause a change of 52 in specific volume), and the use of such pressures would extend the temperature interval in which the Mossbauer line is readily observable by allout 25%. This would be most significant in materials with low Debye emperature. Analysis of the Gruneisen approximation indicates that t is a useful approximation for studying the Mossbauer effect and that quantitative agreement with experiment can be expected for solids with homeopolar bonds and materials with simple, regular ionic lattices. Orig. art. has: 4 figures. ASSOCIATION: Mithematico-Physical Faculty, Charles University, Prague Cord 2/3

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410510009-1

L 10601-65 ACCUSSION NR: AP4044591				ENCL: 00		
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ACCESSION NR: AP4044592

2/0055/64/014/008/0580/0585

AUTHOR: Dlouha, J.

TITLE: The Mossbauer effect at phase transition points

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 14, no. 8, 1964, 580-585

TOPIC TAGS: Mossbauer effect, temperature effect, phase transition spectroscopy, phase transition localization

ABSTRACT: The temperature dependence of the intensity of the Mossbauer line and shifts of its center on passing through phase transition points were studied. Both quantities show a discontinuity at transitions of the first kind (discontinuous change in the frequency spectrum of the crystal), but only a shift of the line center appears at transitions of the second kind (isomeric shift). Shifts of the line center of Fe ⁵⁷ in metallic iron at 1200K and measurements of the Mossbauer line intensity in experiments with Sn¹¹⁹ are cited. These results indicate that the high accuracy of the Mossbauer effect (particularly the position of the Mossbauer line center) would permit its

ACCESSION NR: AP4044592

use for exact localization of phase transitions. In addition, comparisons of results obtained from measurements of the intensity of the Mossbauer line and of shifts of its center (combined with measurements of the pressure coefficient of the Mossbauer effect in the same materials at temperatures near those of phase transitions) with measurements of specific heats would make it possible to obtain valuable data on the behavior of elastic constants at phase transitions.

ASSOCIATION: Mathematico-Physical Faculty, Charles University, Prague

SUBMITTED: 08Jan64

ENCL: 00

SUB CODE: NP, OP

NO REF SOV: 003

OTHER: 010

Card 2/2

DLOUHA, V.; KEIL, B.; SORM, F.

On proteins. Pt.85. Coll Cz Chem 28 no.11:2969-2976 Nº63.

1. Institute of Organic Chemistry and Biochemistry, Czecho-slovak Academy of Sciences, Prague.

DLOUHA, V.; KEli, B.; SORM, F.

Structure of the peptides isolated from the tryptic hydrolysate of the chain of edestin. Coll Cz chem 29 no.8:1835-1850 Ag '64.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague. 2. Chairman, Advisory Board, "Collection of Czechoslovak Chemical Communications" (for Sorm).

CZECHOSLOVAKIA

ILOUHA, V; POSPISILOVA, D; MELOUN, B; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1966, pp 346-352

"On proteins. Part 100: Disulfide bonds of basic trypsin inhibitor from beef pancreas."

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410510009-1

1 33542-66 SOURCE CODE: CZ/0038/66/000/C03/0088/0092 ACC NR: AP6023472 AUTHOR: Dlouhy, Frantisek; Bortlik, Jiri ORG: Energoprojekt, Prague TITLE: Utilization of nuclear sources in district heating SOURCE: Jaderna energie, no. 3, 1966, 88-92 TOPIC TAGS: nuclear reactor power, heating engineering, thermal reactor ABSTRACT: The general questions connected with the utilization of nuclear reactors in district heating are shown. Separate sections of the work were devoted to the problems of positioning the nuclear district heating installations, delivery of heat to the consumer, and economic questions. The advantages and disadvantages of district heating by nuclear installations in comparison with heating installations using conventional fuels were reported. The design of the basic thermal circuit of nuclear district heating power plants was given. A list of the present nuclear sources for district heating is reported. The paper was presented by J. Vlach. Orig. art. has: 2 figures. [NA] SUB CODE: 13, 18 / SUBM DATE: none / ORIG REF: 005 / SOV REF: OTH REF: 007

EWI(m) L 37250-66 SOURCE CODE: CZ/0038/66/000/003/0088/0092 ACC NR: AP6027866 AUTHOR: Dlouhy, Frantisek--Dlougi, F.; Bortlik, Jiri--Bortlik, Y. B ORG: Energoprojekt, Prague TITLE: Questions and problems in the utilization of a nuclear source in centralized heating system engineering SOURCE: Jaderna energie, no. 3, 1966, 88-92 TO PIC TAGS: heating engineering, nuclear reactor technology, nuclear reactor power ABSTRACT: The article examines general questions connected with the utilization of nuclear reactors in centralized heating system engineering — the placement of the nuclear equipment, the delivery of heat to the user, and economic questions. The advantages and disadvantages of the use of nuclear equipment are discussed. Designs of such nuclear equipment are presented, and cases of this application to date are listed. This paper was presented by J. Vlach. Orig. art. has: 2 figures. [JPRS: 36,845] SUB CODE: 13, 18 / SUBM DATE: none / ORIG REF: 005 / SOV REF: 002 OTH REF: 008 na 621.039.576 Card 1/10917

DLOUHY, J.

"Scientific Profile of Rudjer Josip Boskovic", P. 44, (KARTOGRAFICKY PREHLED, Vol. 7(i. e. 8), No. 1, Mar. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

DECUHY, J.

"Jindrich Metelka; a Contribution to the History of Czech Geography." p. 151, (KARTOGRAFICKY PREHLED, Vol. 8, No. 4, Dec. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.

DLOUHY, J.

Heating ingots and semifinished products; loss by burning during heating. p. 69. HUTNIK. (Ministerstvo hutniho prumyslu a rudnych dolu) Praha. Vol. 5, No. 3, Mar. 1955

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 4, No. 12, December 1955.

DYOUHY, J.

Production and use of bricks and blocks in building. p. 109. POMEMNI STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 3, no. 3, Mar. 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 4, No. 12, December 195.

DLOUHY, Josef

Lighting of railroad stations. Zel dop tech 9 no.12:358-360 '61.

DLOUHY,									
F1	lectric	heating o	of railway	switches.	Zel dop	tech	10 no.	3:76-77.	162.
15.	167.01.10		•						

ACCESSION NR: AP50 1732

Z/0040/64/000/012/0366/0367

AUTHOR: Dlouhy, J. Fabera, J. (Engineer)

TITLE: Progress in constructing the new Ruzyne sirport

SOURCE: Letecky objor, no. 12, 1964, 356-367

TOPIC TAGS: airport construction, hangar construction, construction planning

ABSTRACT: Earthwork for the new repairshop hangar at Prague Ruzyne airport began in the spring of 1963, but work on the heavy foundations for the 19 reinforced concrete frames to support the steel roof structure was interrupted by lack of material and then by severe weather. Only 3 frames were completed by January 7, 1964 instead of 9, and the new schedule called for all 18 to be up by Nov. 11, 1964. The Kralovopolske strojirny (Kralovopolske Machine Works) in Brno have already delivered and are now assembling the steel section of the roof structure, but there is no hope that the hangar will be complete before the end of 1966. The new passenger building is the second major project and concrete foundations plus the floor over the bisement were completed at the end of June, 1964. The whole reinforced concrete keleton for the central section of the building is scheduled for completion in 1964. Military Constructions, as the general contractor, and

Aviation Administration, qualified building expert concrete and other constr will not be concreted by	s and skilled labor, as wel- cuction work. The upper fou- the end of the year in spit	or floors in the central block the of arrangements being made	
for a new type of electr	Ic heating. This will leave rnamentation if the building at has ordered. Orig. art.	is to be opened by the middle	8
of 1967, as the governme	or was proceed		
of 1967, as the government of ASSOCIATION: none	ENGL: 60	SUB CODE: IE, GO	
of 1967, as the government	L Has J. L. V		

DLOUHY, Josef

Examination of physical and chemical measurement methods and their application. Jaderna energie 8 no.12:432-433 '62.

DLOUHY, K.

The L 13 "Blanik" glider. p. 149. (Kridla Vlasti, No. 5, Mar 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

DLOUHY, K.

The flight properties and effectiveness of the Blanik glider. p. 281. (Kridla Vlasti, No. 9, Apr 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

DLOUHY, K.

The Paris Aeronautic Exhibition through the eyes of an engineer.

P. 502, (Kridla Wlasti) No. 16, Aug. 1957, Praha, Czechoslovakia

SO: Menthly Index of East European Acessions (EFAI) Vol. 6, No. 11 November 1957

DIOUHY, Karel, inz.

An aeroplane for local airlines. Letecky obsor 6 no.3:66-69 162.

Diouny, M.

Strength of sintered carbides. p. 43

STROJEMEN IVI (Minsdeerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstfo automobiloveho prumyslu a zemedeskych stroju)
Pjrsha, Czechoslavakia
Vol. 9, no. 1, Jan. 1959

Monthly list of East European Accessions (EEAI), IC, vol. 8, no. 7 July 1959 Unel.

DICUHY, M.

Chip forming. p. 605

STROJERENSTVI (Ministerstvo tezkeho strojirenstvi, Ministerstve vseebcenebo stronirenstvi) Praha, Gzechoslevakia, Vol. 9, no. 8, Aug. 1950

Monthly List of East European Accessions (CEA1), IC, Vol. 9, no. 2, Feb. 1960

Uncl.

AUTHOR: Dlouhy, M., Engineer

CZECH/34-59-8-8/16

TITLE:

Bending Strength of Sintered Carbides at Elevated

Temperatures

PERIODICAL: Hutnické listy, 1959, Nr 8, pp 692 - 695

ABSTRACT: J. Hinnüber (Ref 1) arrived at the conclusion that the drop in strength compared with that at normal temperature is much greater for TT4-type carbides with a high Co and low TiC content than it is for carbides with high TiC contents.

Most authors considered solely the influence of the temperature on the bending strength. Only G.S. Kreimer et al (Ref 2) have carried out a detailed analysis in which they also took into consideration the influence of the grain size on the bending strength of sintered carbides at elevated temperatures. In this paper, the author describes equipment, developed by himself, for testing the bending strength of sintered carbides in the temperature range 20 to 900 °C and also some tests carried out by means of this equipment. The results, entered in Tables 1 and 2 and graphed in Figure 4, indicate that the differences in

Cardl/2 strength of individual types of the S series sintered

Bending Strength of Sintered Carbides at Elevated Temperatures

carbides decrease with increasing temperature and at about 900 °C the strengths of the types S1 to S4 carbides are approximately identical. Whilst the bending strength of the carbide S1 at 900 °C is about 27% below its original value, the drop for the carbide S4 is 46%. With increasing at first slightly, reaching the maximum value at about 200 °C. There are 5 figures, 2 tables and 4 references, of which 2 are German, 1 Czech and 1 English.

ASSOCIATION: VÚOSO, Prague

SUBMITTED: March 18, 1959

Card 2/2

DLOUHY, M.

Design for self-adjusting chip former. p. 671.

STROJIRENSTVI. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia, Vol. 9, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 1, Jan, 1960

Uncl.

DLOUHY, M.

Bending strength of sentered carbides at elevated temperatures. p. 692.

HUTNICKE LISTY, Erno, Czechoslovakia, Vol. 11, no. 8, Aug. 1959

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 10, Oct. 1959 Uncl.

DLOUHY, M., inz.

Tools with self-adjusting chip shaper. Stroj vyr 9 no.7:377 161

1. Vyzkumny us 3. obrabecich stroju a obrabeni, Praha.

Houdek, J., Engineer and Dlouhy, M., Candidate AUTHORS:

of Technical Sciences, Engineer

Toughness of Concentrated Carbides and Its TITLE:

Measurement

Strojírenství, 1961, Vol. 11, No. 2, PERIODICAL: pp. 126 - 132

The most reliable and convenient method for TEXT: evaluating tungsten carbides are machining tests. However, such tests are laborious and expensive and they do not provide information on the resistance to mechanical stresses, thermal shocks, etc. The most suitable criterion for evaluating the quality of tungsten carbides in addition to their cutting properties would be the toughness. However, term has so far not been clearly defined and there is no method for determining it. The authors propose a method based on indenting a polished carbide ball into the plate to be tested, the surface of which is lapped. This method was originally developed by Messrs. Wickmann (New Card 1/7 Steel: 1957, Mass Production 33, No. 2). The force

Toughness of Concentrated Carbides and Its Measurement

P applied to the ball is gradually increased, the surface layer becomes plastically deformed and an indentation in the shape of a spherical cup is formed, the diameter D of which gradually increases in proportion to increasing P. Gradually cracks will appear at the edges; the tougher the carbide the greater the force required for damaging the edges and the larger will be the diameter of the indentation. On the basis of numerous tests it was found that the optimum speed of indentation of the ball is 10 kg/sec. The pressure is maintained for 10 sec after reaching the desired value. Depending on the carbide tested pressures varying between 20 kg and 70 kg are applied. The load or the diameter of the indentation for which the first cracks occur will be proportional to the toughness of the tested carbide specimen. This will be designated as limit load and limit diameter $(P_{lim}$ and $D_{lim})$. In brittle carbides, well pronounced cracks occur at a certain distance from the edge of the

Card 2/7

Toughness of Concentrated Carbides and Its Measurement indentation. In tough carbides the cracks are nearer to the edge of the indentation; frequently, they run straight along the edge and are less pronounced. To be able to distinguish the cracks better, the surface has to be lapped by means of a cast-iron disc with diamond paste of 1-2 μ grain size. The limit load varies between 200 and 900 kg, the limit indentation diameter is between 0.5 and 1 mm. The toughness tests were carried out in a tensile test machine by means of improvised equipment. The ball used was of 5 ± 0.01 mm dia. The loading speed was 9-11 kg/sec. The formation of cracks was observed by means of a metallographic microscope with 100X magnification. As a criterion of the toughness, the energy expended on making the indentation of diameter D_{lim} is taken as a measure of toughness since this is considered to be approximately proportional to the volume of the indentation. The pertaining force mlations can be determined by means of the Hertz law. Card 3/7

Toughness of Concentrated Carbides and Its Measurement The relation between the indentation force and the diameter of the indent can be expressed as follows:

$$P = \alpha D^{n} \tag{10}$$

where a and n are constants for a given type of tungsten carbide. It was determined by statistical analysis that the limit diameter of the indent can be established with an accuracy of \pm 5.7% with 95% probability; the limit loading can be measured with an accuracy of \pm 17% with 95% probability. The values of a and n were determined experimentally for 5 types of Czech-produced tungsten carbides. Following that, the experimentally determined relations $P = \phi(D)$ were applied for calculating toughness criteria, i.e. the amount of required deformation work:

$$A = \int_0^m P dt \qquad (17) .$$

Card 4/7

Toughness of Concentrated Carbides and Its Measurement

Since A is of the order of thousands of kg μ , the authors have chosen a value one hundred times less, designating it as A_m . Thus, the authors choose as a toughness criterion

the mechanical energy which has to be expended for producing an indentation with diameter $\rm\,D_{1\,im}$. In these calculations

it is assumed that the established relations between P and D are valid with sufficient accuracy for all the carbides of a given type. During indentation the temperature is basically the room temperature. The loading speed has some influence and therefore it is considered advisable to use a loading speed of about 10 kg/sec, which proved to be the eptimum one. It is stated in the conclusions that the indentation method of testing toughness is applicable for reliable determination of the toughness of various types of carbides and also of the differences in toughness obtained for individual heats of the same type of material. In a table the maximum permissible feeds of carbides of the Card 5/7

Toughness of Concentrated Carbides and Its Measurement S-series (manufacturer's recommendations) are compared with the average values of the bending strength σ_0 and the toughness number A_m . For greater clarity, relative values are also given for p_{Am} , p_s , $p_{\sigma'}$, indicating how many times the appropriate maximum feed (p_s) , bending strength $(p_{\sigma'})$ and toughness are higher than the appropriate values for the carbide S1. For instance, for the carbide S3 the maximum permissible feed is 330% higher than for S1, although its bending strength is only 9% higher. On the other hand, its toughness number A_m is 336% higher, which is commensurate with the maximum permissible feed for this type of carbide. This proves that the results obtained by indentation characterise satisfactorily the mechanical strength of tungsten carbides.

Card 6/7

Toughness of Concentrated Carbides and Its Measurement

Tung- sten Car- bide type	Max. perm- issible feed, s(mm/rev)	р _{s}	Bend. strength o'(kg/mm ²)	p T	PAm	
s1	0.6	1	110	1	20.0	1
S2	1.0	1.66	115	1.04	36.5	1.83
S 3	2.0	3.33	120	1.09	67.2	3.36
s4	2.5	4.17	130	1.18	94.7.	4.73
S5	4:	6.66	150	1.37	193	7.60

There are 8 figures, 1 table and 6 references: 4 Czech and 2 non-Czech.

VÚOSO, Prague ASSOCIATION:

Card 7/7

DLOUHY, Milan, inz., C.Sc.; HOUDEK, Josef, inz.

Grinding mandrels from cemented carbide increase the labor productivity in internal grinding. Stroj vyr 10 no.12:599-602 162.

1. Vyzkumny ustav obrabecich stroju a obrabeni, Praha.

DLOUKHI, M. [Mouhy, M.], kand. na tekhn. nauki

 $\mathcal{B}_{\Gamma_{i}, \mathcal{G}_{i}}$

Bending strength of hard alloys at higher temperatures. Manhinostroene 12 no.3130-32 Mr163

1. Nauchnoissledovatelski institut po metalorezheszti masnini i mekhanichna obrabotka, Praga.

DLOUHY, Milan, inz., ScC.; HOUDEK, Josef, inz.

Apparatus for cemented carbide toughness measurement. Stroj vyr 11 no.5:264-265 My '63.

1. Vyzkumny ustav obrabecich stroju a chrabeni, Praha.

DLOUHY, M., inz. CSc.; HOUDEK, J., inz.

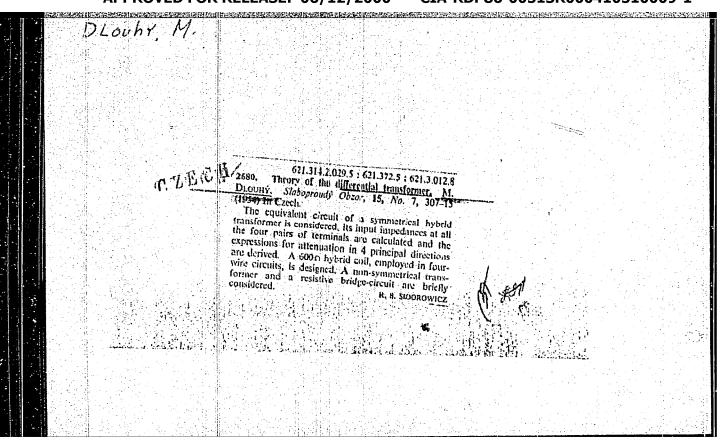
Shaping of cuttings by tool oscillation. Strojirenstvi 14 no.5: 360-363, 387 My '64.

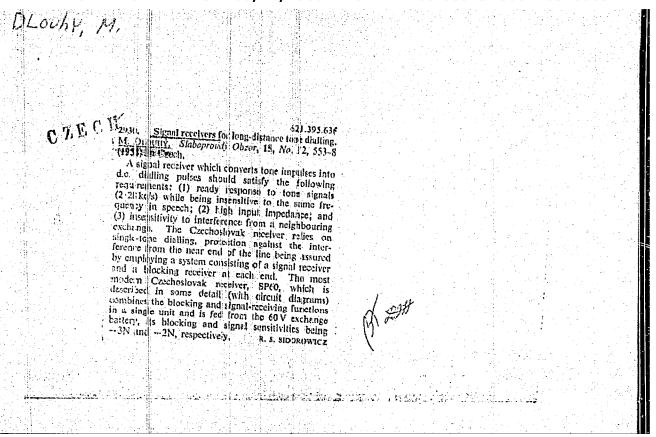
1. Research Institute of Machine Tools and Machining, Prague.

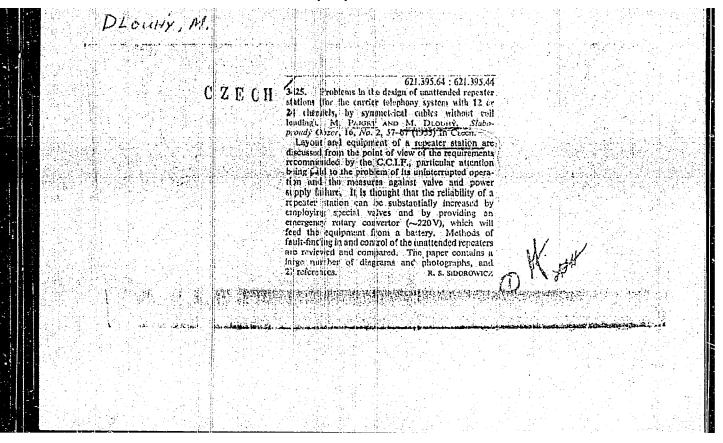
DIQUHY, K.

Power amplifier for the JVT 2 one-phase high-frequency telephone. p. 172. SDELOVACI TECHNIKA, Praha, Vol. 2, no. 4, Apr. 1954.

SO: Monthly List of East European Accessions, (EmAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.





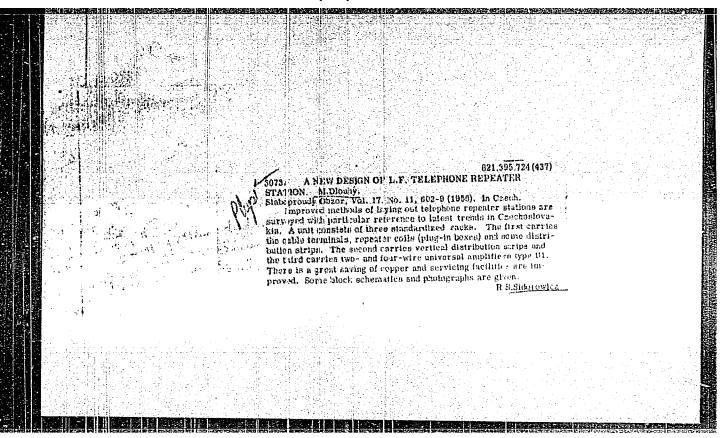


DLCUHY, 1.

New Ul, universal telephone amplifier. p. 182.

Vol. 17, no. 4, Apr. 1956 SUDY Praha, Czechoslovakia

Source: East European Accession List. Library of Congress Vol. 5, No. 3, August 1956



DLOUHY, Miroslav, inz.

Transmission methods for use in telephone carrier systems. Cs spoje 7 no.9:12-16 S $^{1}62$.

1. Sprava dalkovych spoju, Praha.

DLOUHY, Miroslav, inz.

World telecommunication lines. Cs spoje 8 no.2:7-9 Ap 163.

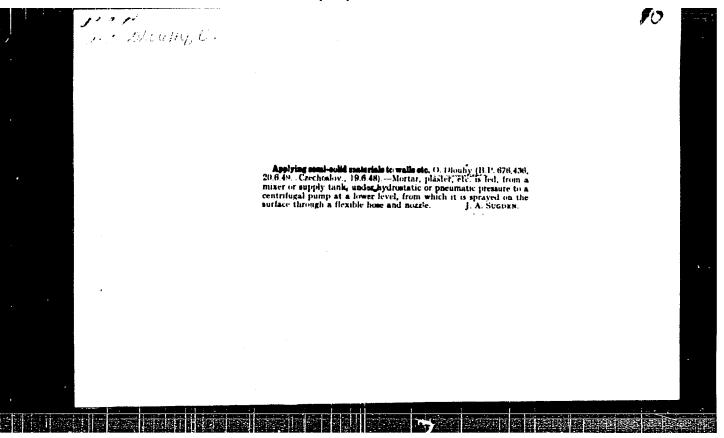
1. Sprava dalkovych spoju.

DLOUHY, Miroslav, inz.

Use of high frequency symmetrical cables for transmission of more than 24 channels. Cs spoje 9 no.5:4-5 0 164.

1. Research Institute of Telecommunication, Prague.

ACI: 11R: 11P6010909 SOURCE CODE: CZ/0032/65/015/010/0773/0776 AUTHOR: Dlouhy, M. (Engineer; Candidate of sciences); Houdek, J. (Engineer) ORG: Research Institute of Machine Tools and Machining, Prague (Vyzkumny ustav obratecich stroju a obrabeni) TITUE: Short-time machinability test SOURCE: Strojirenstvi, v. 15, no. 10, 1965, 773-776 TOPIC TAGS: steel, metal machining, test method, metal test ABSTRACT: All standard machinability tests are essentially long-time experiments and do not meet practical requirements where information concerning machinability is needed within the shortest possible time. The authors developed a new short-time machinability test which appears sufficiently reliable in comparison with other methods. Test results indicate that in the machinability of steels there are still considerable reserves for improving the productivity of machining. This paper was presented by Professor F. Kristek, Engineer. Orig. art. has: 4 figures and 3 tables. [JPRS] SUB CODE: 13 / SUBM DATE: none / CRIG REF: 001 / OTH REF: 001 UDC: 620.179.5:



CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Н.

Application. Fats and Oils. Waxes. Soaps and Deter-

gents. Flotation Agents.

Abs Jour : Ref Zhur - Khimiya, H 10, 1959, 36655

Author : Janeik, Vl., Dlowby, O., Chloupek, J. Inst

: Recent Trends in the Foeld of Mydrogenation of Oils and Title

Fats.

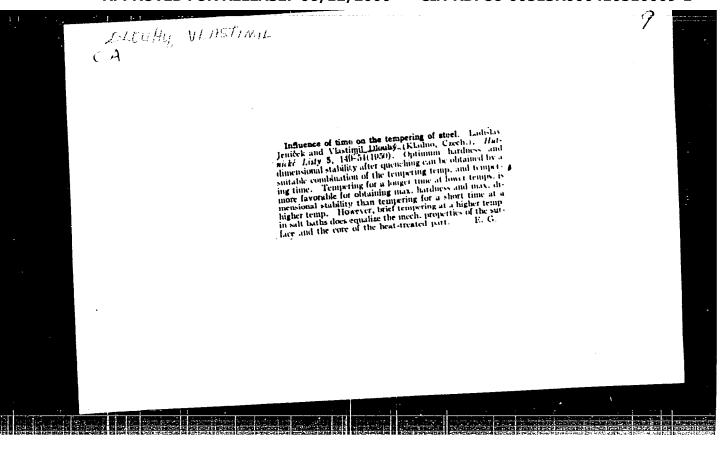
Orig Pub : Prunysl. potravin, 1957, 8, No 6, Prill, 1-19.

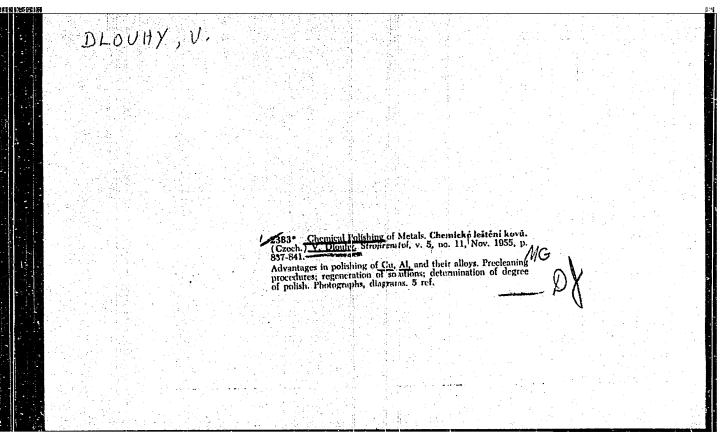
Abstract : A review. Bibliography of 19 titles.

Card 1/1

H-136

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DIOUHY, V.

Electrolytic production of high purity chromium. p.509. (Hutnicke Listy, Vol. 12, No. 6, June 1957, Brno, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

36174 2/032/62/012/004/001/007 E073/E535

1.1710

AUTHOR: Dlouhy, V.

TITLE: Heat treatability of steels

PERIODICAL: Strojírenství, v.12, no.4, 1962, 277-282

The currently used end-quench test, in which the depth TUXT: from the hardened phase is measured at which the hardness corresponds to a 50% martensite for the given carbon content, is not an unequivocal criterion. A given hardness can be achieved by high temperature tempering of a component containing different quantities of martensite at the surface and in the core. "Heat treatability", defined as the ability of the steel to achieve certain mechanical properties up to a certain depth, is a better criterion. It depends on the hardenability and on the degree of tempering. In this sense a component is considered "heat treated" if it has a uniform, usually sorbitic, microstructure throughout the cross-section, a high ratio of the yield point of the "heat" ultimate strength opt and a high enough toughness. It treatability" test is based on determining the mechanical properties of specimens of 15 to 40 mm diameter cut from annealed semi-finished products or surface sections of rods and forgings Card 1/3

Heat treatability of steels

Z/032/62/012/004/001/007 E073/E535

after heat treatment. For machine parts subjected to tensile, compression and combined stresses it is essential to know the mechanical properties throughout the entire cross-section and therefore the heat treatability is determined by means of cylindrical specimens cut in various directions. F. Sicha (Ref.4: Průmyslové vydavatelství, Praha, 1951) determined by this method the mechanical properties of thirty constructional steels after various degrees of heat treatment. The drawback of this method is the laboriousness of preparation of specimens and the high consumption of material. U. Wyss (Ref. 5: Technische Mitteilungen, no.2, 1953) has carried out experiments for establishing the relation between the hardness at various depths and the mechanical properties of cylinders with a variable diameter in the heat treated state. The author of this paper compared the measured mechanical properties of some steels with data extracted from the diagrams published by Wyss. There was good agreement as regards yield point values but considerable differences were found to exist in values relating to plasticity; these differences may be due to the fact that, in order to obtain the required strength, Card 2/4

deat treatability of steels

Z/032/62/012/004/001/007 E073/E535

the specimens were tempered from various temperatures, which brought about differences in the plasticity. The new method of testing "heat treatability" consists of utilizing the well established end-quench test for determining directly the mechanical properties along the test specimen. If as a criterion of the heat treatability the ratio $\sigma_{ ext{Kt}}$ to $\sigma_{ ext{Pt}}$ is taken, it is possible to compare the mechanical properties determined along the specimen cut from the end-face with values determined at a distance of 5 mm from the end-face. Experimental results are given for eight grades of steel with compositions as shown in Table 1, using tensile and notch-impact specimens of dimensions Full details are given on heat treatment and on the changes in the mechanical properties. Utilizing diagrams published by U. Wyss (Ref.5) and J. M. Blanter (Ref.6: 1953, Sovětská věda - Hutnictví, no.4) the end-quench heat trætability test permits solving numerous practical problems encountered in heat treatment of constructional steels. A definite advantage of the method is the very low quantity of material required for the specimens. There are 16 figures and 2 tables. Card 3/4

KALOC, Jan, dr. CSc.; DIANNY, Vladimir; FOWHMA, VConke, inz.

Hydrometallurgical processing of Mn-Ft-Cu collective concentrates. Rudy 12 no.7/8:324-325 Jl-Ag*64 (MIRA 17:8)

1. Research Institute of Metals, Panenske Brezany.

L 62742-65 EWA(d)/EWP(t)/EWP(t)/EWP(b) JI

ACCESSION NR: AP5021406 CZ/0034/64/000/012/0864/0870, 7

AUTHOR: Dlouby, Vlastimil 5

TITLE: Possibilities of simplification heat treatment and of economic utilization of properties of alloy steels 4

SOURCE: Hutnicke listy, no. 12, 1964, 864-870

TOPIC TAGS: steel, metal heat treatment, metal test, alloy steel, metal property

Abstract Author's English summary 7: Requirements for mass heat treatment of metallurgical and engineering products in to establish 21 categories for heat treatment requirements that The technique of test bar sampling of quenched and tempered that would be suitable for all dimensions of the products is

suggested. Classif is proposed. At p criterion; the new Orig. art. has: I	mothod would a bigures, 2 to	ard Marante	of steel and of	Lame and courf	i
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DLOUHA, V.; NEUWIRTHOVA, J.; MELCUN, B.; SORM, F.

On proteins. Pt.95. Coll Cz Chem 30 no.5:1705-1712 My 65.

1. Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague and Lectua, Prague. Submitted June 26, 1964. 2. Advisory Board Chairman, "Collection of Czechoslovak Chemical Communications" (for Sorm).

MEYEROVICH, Ya.M.; DLOUGIY, V.V.

Hydraulic sorting of wastes from the crushing of limestone without using suction dredge feeding of starting material. Stroi.mat. 10 no.8:24-26 Ag 164. (MIRA 17:12)

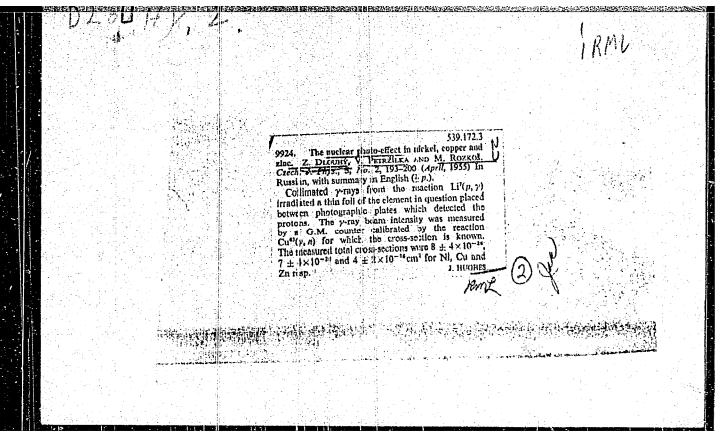
KLONOWICZ, Karia; DLOUHY, Wojciech; RADWAN Leszek

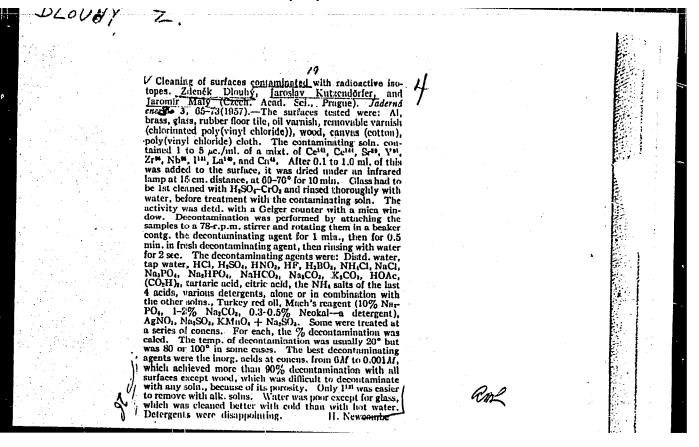
A case of pancytopenia associated with pregnancy toxemia. Gin. polsks. 31 no.3:333-338 My-Je *60.

1. Z I Zakładu Chorob Wewnetrznych Studium Doskonalenia Lekarzy
A.M. Kierownik: prof. dr med. W.Hartwig

(ANEMIA MPLASTIC in pregn)

(PREGNANCY TOKEMIAS compl)





Czechoslovakia COUNTRY

B-15

CATEGORY

1959, Ro. ABS. JOUR. : RZKhim., No. 22

77968

AUTHOR

Dlouhy, Z. and Maly, J.

INST.

Not given

TITLE

The Kinetics of the Sorption of Mixtures of

Radioisotopes at Surfaces

ORIG. PUB.: Jaderna Energie, 4, No 12, 387-588 (1958)

ABSTRACT

The authors have investigated the adsorption of the radioisotopes Ca 45, Zn 65, Po 210, and their mixtures on steel strips from hydrochloric acid solutions and their desorption when the strips are immersed in solutions containing desorbing agents. The kinetics of the adsorption and of the desorption can be described by the following equations: $I_A = \lambda C_{z_1} (1-\exp(-z_1 t) + \lambda C_{z_2} (1-\exp(-z_1 t) + \lambda C_{z_3} (1-\exp(-z$

CARD: 1/3

COUNTRY : Czechoslovakia B-13 CATEGORY ABS. JOUR. : RZKhim., No. 22 1959, No. 77968 AUTHOR INST. TITLE ORIG. PUB. : ABSTRACT : I is the activity of the strips, λ is the decay constant, and C_{zi} , z_i , and Γ_{∞} are constants. The three exponential terms in the equations correspond to the three different first-order processes taking place, which depend on the degree of coverage of the surface of the strips by the ions present in the sorption solution. The process with a mean $T_1' = 4$ hrs depends on the Fe(2+) concentration; the process with T_1''' = 2 min depends on the H concentration. CARD: 2/3 56

COUNTRY : Czechoslovakia CATEGORY

B-13

ABS. JOUR. : RZKhim., Ro. 22 1959, Ro.

77968

AUTHOR

INST. TITLE

ORIG. PUB. :

ABSTRACT

: process characterized by a value of Ti = 45 min depends neither on the chemical composition of the solution nor on the type of stirrer used. When the adsorbing are sufficiently dilute, no competition between the individual radioisotopes is observed. Of practical interest is the possibility of lowering T; for radioactive 2n(2+) by the addition of a small quantity of Fe(2+) to the solution; this makes possible the acceleration of the deactivation of the strip. after

desorption in acid solutions.

Ya. Satunovskiy

CARD: 3/3

DLOUGH Z. [Dlouhy, Z.]

Pulse method for measuring the age of neutrons in graphite. Atom. energ. 9 no.3:182-188 S 60. (MIRA 13:8)

1. Institut yadernykh problem, Chekhoslovatskaya Akademiya nauk, Praga, Chekhoslovakiya.

(Neutrons)

BAYER, R.; CERVENA, J.; DLOUHY, Z.; SCHAFERLINGOVA, W.

Measurement of diffusion constants in light water by the impulse method. Cs cas fys 11 no.6:480-488 '61.

1. Ustav jederneho vyzkumu, Cesikoslovenska akademie ved, Rez.
(Nuclear physics)

L 56 04-65 EVT(m)/EPF(c)/EPF(n)-2/EVG(i CESSION NRI AP5018829	(~ (2/0038/64/010/008/0251/0292
AUTHCR: Dlouby, Edensk	10
ITLE: Study of the sorption properties of p	proclastic rocks used for the de-
ontsmination of radioactive waste waters	
SOURCE: Jaderna energie, v. 10, no. 8, 1964,	291-292
OPIC TAGS: nuclear decontamination, nuclear	decontamination agent, water purifica-
ion, silicate, adsorption	
Abstract: Classification of a large of	coup of natural silicates
pyriclastic rocks was made according	to the properties affect-
ng the decontamination properties of experiments distribution of microcomp	onents as a function of
heir concentration was investigated; ained Cs, Sr, Ce, Zr, and Cb. In dyr	the microcomponents con-
of competitive ion concentration. flow	raton, column length, and
Jauuracion curves was studied. Ryodadi	ite tuff from Nizny Hrebo-

ved was the best material for adsorption of Cs from wastes in								
the absence of Ca long. Sr ions are adsorbed as well as Cs ions.								
The article is an abstract of author's thesis published by the Institute for Nuclear Research of the Grechoslovak Academy of								
Sciences. An English	abstract is printed.							
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ID HE CALL DOO	하다가 하는데, 영어 <u>보다고 보고 보</u> 게 되는 것 <u>이 되</u> 었습니다.	"老女,我就是我们的我看到,我没有一个一个一个好好的。""我们的,我就是这个女女的,我们就是我们的,不是我们						
IR INF SOV: 000	OTHER: COO	JPRS						
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11 292-15 E"T(m)/EPF(c)/EPF(n)-2/ENG(m)EPR Pr-4/Ps-4/Pu-1 ACCESSION NR: APSO13584 C2/0038/65/000/003/0087/0091 AUTHOR: Douby, Zdenek (Franci, 2.) PIPEL: Investigation of adsorption properties of pyroclastic rocks for the purposes of radioactive waste water decontamination. I. The classification of pyroclastic rocks SOURCE: d'aderna energie, no. 3, 1965, 87-91 POPIC TAGH: radioactivity, nuclear decontamination, nuclear decontamination agent, water sanitation, adsorption, silicate ABSTRACT: Classification of a great group of natural silicates, pyroclastic rocks, on the basis of their adsorption properties and further oriteria for their applicability in radioactive waste water decontamination was carried out. Materials, which maximally met all requirements, were investigated in more details. The best material, rhyodacite tuff from Nizny Hrabovec, was found to be very convenient for radiocesium adsorption from waste waters. The adsorption of radiostrontium under certain conditions /in the absence of calcium ions in treated solutions Card 1/2

ACCESION IR: AP5013584			
mentioned material in pil	lot plant or on full operat	ompt utilization of the above ion scale is feasible.	
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ASSOCIATION: Ustav jaden	meho vyzkumi CSAV. Hez (In	stitute of Nuclear Physics,	
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L 7864-66 EWT(m) DIAAP ACC NR. APONO1207 CZ/0038/65/011/006/0207/0212 SOURCE CODE: AUTHOR: Dlouhy, Zdenek-Dlougi, Z. ORG: Institute of Nuclear Research, CSAV, Rez (Ustav jaderneho vyzkumu CSAV) TITLE: Sorption properties of pyroclastic rocks for the decontamination of radioactive waste water. Part 2. Study under static conditions. SOURCE: Jaderna energie, v.11, no.6, 1965, 207-212 TOPIC TAGS: nuclear decontamination, nuclear decontamination agent, water purification, radiation chemistry ABSTRACT: It was previously found that rhyodacite tuff from Nizny Hrabovec is the most suitable pyroclastic rock for the decontamination of radioactive waste water. Therefore, this mineral was investigated in greater detail, and the dependence of the adsorption of the radionuclide ion on the Ca2+ and Na+ ions present was determined. The results obtained were in good agreement with the Fublished data, except for the value of the distribution coefficient for Cs. It was concluded that for Cs the proportionality condition, as reported in the literature, of ion activities and molar fractions of these ions in solid phase is probably invalid. The work was presented by L. Berak. Orig. art. has: 14 figures, 1 table. /NA/ SUB CODE: 1.8, 07 / SUEM DATE: none / ORIG REF: OOL / OTH REF: 003 UDC:

1. 09874-67 ACC NR: AP6032755 SOURCE CODE: CZ/0038/66/000/009/0333/0337

AUTHOR: Bartl, O.; Dlouhy, Z.

ORG: [Bartl] Skoda Sectional Enterprise, Plzen, Nuclear Power Plant (Skoda, oborovy podnik Plzen, zavod jaderne elektrarny); [Dlouhy] Nuclear Research Institute CSAV, Rez (Ustav jaderneho vyskumu CSAV)

TITLE: Decontamination ability and corrosion action of some decontamination solutions

SOURCE: Jaderna energie, no. 9, 1966, 333-337

TOPIC TAGS: corrosion, stainless steel, carbon steel, metal surface, metal scaling

ABSTRACT: Corrosion tests and tests to show the decontamination properties of stainless steel and carbon steel were conducted with various decontaminants. Special attention was given to the scale present on the surface of the steel. The scale could not be removed completely from the surface of the metal. The use of an alkaline permanganate solution did not result in easier dissolution of the oxide layer during the next step of the decontamination process with citrate solution. The effectiveness of all decontaminants tested was satisfactory with the exception of the sulfamic acid solution for both types of steel,

Card 1/2

621.039.004 UDC: 620.193.2